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ABSTRACT

This book includes narratives containing a wealth of detailed and specific images by teachers who are working with constructivist methods and principles to transform their practice along the lines mandated by the National Council of Teachers of Mathematics Standards. In contrast to traditional presentations, the papers in this volume contextualize issues and concepts in the life-process of particular classrooms. The reader learns about the teacher's goals for the lesson, about students questions and ideas, and how they interacted with one another. The 13 narratives are supplemented with 5 essays written by teacher educators to reveal some of the broader issues. Papers are organized under five headings: "Facilitating Students' Construction of Their Own Mathematical Understandings"; "Students Becoming Powerful Mathematical Thinkers"; "Communities of Inquiry in the Mathematics Classroom"; "Teaching Mathematics to All Students"; and "Computer Technology Transforming Mathematics Instruction." (MKR)

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